

Product datasheet for **RG213466**

PLA2G2E (NM_014589) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PLA2G2E (NM_014589) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PLA2G2E
Synonyms: GIIE sPLA2; sPLA2-IIIE
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213466 representing NM_014589
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAATCTCCCCACGTGCTGGTGTTCCTTTGCCTCCTGGTGGCTCTGGTCACCGGGAACCTGGTTCAGT
 TTGGGGTGATGATCGAGAAGATGACAGGCAAGTCCGCCCTGCAGTACAACGACTATGGCTGTACTGCGG
 CATCGGTGGCTCCACTGGCCGGTGGACCAGACTGACTGGTGTGCCACGCCACGACTGCTGCTACGGG
 CGTCTGGAGAAGCTGGGCTGTGAGCCAACTGGAAAAGTATCTTTTCTCTGTCAGCGAACGTGGCATT
 TCTGCGCCGGCAGGACCCTGCCAGCGGCTGACCTGCGAGTGTGACAAGAGGGCTGCCCTCTGCTTTCG
 CCGCAACCTGGGCACCTACAACCGCAAATATGCCATTATCCCAACAAGCTGTGCACCGGCCACCCCG
 CCCTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG213466 representing NM_014589
 Red=Cloning site Green=Tags(s)

MKSPHVLVFLCLLVALVTGNLVQFVGMIEKMTGKSALQYNDYGCYCGIGGSHWPVDQTDWCCHAHDCCYG
 RLEKLGCEPKLEKYLFSVSEKIFCAGRTTCQRLTCECDKRAALCFRRNLGTYNRKYAHYPNKLCTGPTP
 PC

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

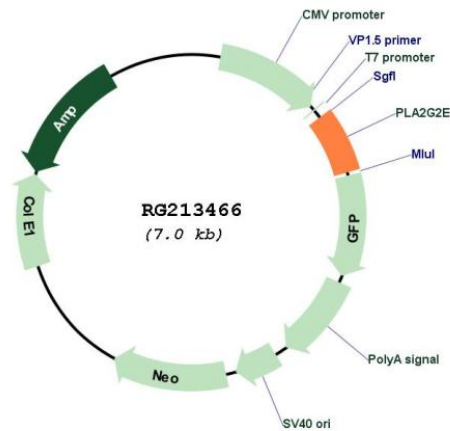


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Cloning Scheme:



Plasmid Map:



ACCN: NM_014589

ORF Size: 426 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM_014589.3</u>
RefSeq Size:	487 bp
RefSeq ORF:	429 bp
Locus ID:	30814
UniProt ID:	<u>Q9NZK7</u>
Cytogenetics:	1p36.13
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	alpha-Linolenic acid metabolism, Arachidonic acid metabolism, Ether lipid metabolism, Fc epsilon RI signaling pathway, Glycerophospholipid metabolism, GnRH signaling pathway, Linoleic acid metabolism, Long-term depression, MAPK signaling pathway, Metabolic pathways, Vascular smooth muscle contraction, VEGF signaling pathway
Gene Summary:	PA2 catalyzes the calcium-dependent hydrolysis of the 2-acyl groups in 3-sn-phosphoglycerides. Has a preference for arachidonic-containing phospholipids. [UniProtKB/Swiss-Prot Function]